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The water also holds in solution a small amount of the hydrocarbon gas (together with carbonic oxide, oxygen and nitrogen), but this seems not to decompose at all during evaporation, as it does not contaminate the solid residue.

The temperature of the water as it issues from the well is constant throughout the year, and is about 61° Fah.

### LIST OF COLEOPTERA.

Collected in Colorado in June, July and August, 1876, by the Kansas University Scientific Expedition.

By Prof. F. H. Snow.

Five members of the class of 1876 of the University of Kansas, after commencement, organized a scientific expedition for explorations in Colorado, and invited me to accompany them. The names of the students were as follows: George F. Gaumer, Charles W. Smith, Elmer B. Tucker, Miss May Richardson and Miss Lizzie Williams. My wife and son were also members of the party. Large collections were made of insects, plants, birds, mammals and reptiles, the chief attention being devoted to the first two of these departments. A few minerals were also collected. Three weeks were spent at Colorado Springs, from which point excursions were made to the Plains on the east, to the summit of Pike's Peak, Chiann Canon, and various other localities. Three weeks were devoted to an expedition to the South Park by way of the Ute Pass. During the first week in August the students returned home, but the rest of the party remained in camp in Engelmann's Canon, along the trail of Pike's Peak, until September 1st, making large collections of insects.

Of the material thus accumulated, I have as yet had time to "work up" only a single order of insects, the Coleoptera. In this order three hundred and four species and twelve varieties were collected; among them twelve new species, and one of Thomas Say's "long-lost" species (*Dietyoptera sanguinipennis*). The list includes a few species taken by Mr. Edwin A. Popenoe, of Topeka, who spent two weeks in Colorado, and was with us for a single day at Colorado Springs.

For the determination of a large proportion of the species not previously in my collection, I am indebted to Dr. John L. LeConte, of Philadelphia, who will describe the new species discovered by our party. The number prefixed to the names are those of Crotch's "check-list." Instead of using the word "rare" to denote infrequent occurrence of a species, I have preferred to mention the exact number of specimens in each case obtained.

### LIST.

#### CICINDELIDÆ.

1. *Amblychila cylindriciformis*, Say. A single specimen was found dead in a spider's web, in Webster Park, by Mr. Popenoe. The rarity and value of this insect may be inferred from the fact that \$12 are asked for a single specimen by Eastern dealers.

12. *Cicindela longilabris*, Say var. South Park, sandy plains, common; differs somewhat from the type-form.

22. *Cicindela purpurea*, Oliv. var. *Audubonii*, Lec. South Park; same localities as the preceding.

23. *Cicindela cimarrona*, Lec. South Park, with the preceding. A large series of the last two forms was taken, convincing Dr. LeConte of what he had long suspected, that they should not be considered distinct species.

25. *Cicindela venusta*, Lec. A single specimen only, on the plains near Colorado Springs.

27. *Cicindela fulgida*, Say. Banks of the Platte, in South Park; only five specimens.

28. *Cicindela tranquebarica*, Hb. var. Two specimens.

30. *Cicindela 12-guttata*, Dej. Abundant

at Manitou and vicinity.

30b. *Cicindela guttifer*, Lec. Same localities as the preceding.

37. *Cicindela cinctipennis*, Lec. Only five specimens; locality not noted.

51. *Cicindela punctulata*, Fab. Abundant everywhere.

51a. *Cicindela micans*, Fab. A green variety of the preceding; not uncommon.

#### CARABIDÆ.

84. *Elaphrus Californicus*, Mann. One specimen only, at Manitou.

173. *Cychrus elevatus*, Fab. Two specimens only, taken in our tent at Englemann's Cañon.

200. *Pasimachus elongatus*, Lec. Found abundantly under cattle "chips," near Colorado Springs.

340. *Loxopeza grandis*, Hentz.

344. *Loxopeza atriceps*, Lec.

394. *Glycia purpurea*, Say. Of each of the last three species, a single specimen only was obtained; locality not noted.

397. *Cymindis laticollis*, Say. South Park; not common.

398. *Cymindis brevipennis*, Zimm. South Park; abundant under "chips."

399. *Cymindis abstrusa*, Lec. Found with the preceding species, and now considered identical with it by Dr. LeConte.

428. *Calathus ingratus*, Dej. Three specimens.

436. *Calathus dubius*, Lec. Five specimens.

511. *Platynus cupreus*, Dej. Two specimens.

514. *Platynus placidus*, Say. Two specimens.

520. *Platynus obsoletus*, Say. One specimen.

563. *Evarthrus incisus*, Lec. Abundant under "chips," near Colorado Springs.

581. *Pterostichus protractus*, Lec. Three specimens.

— *Pterostichus longulus*, Lec. One specimen.

679. *Amara hyperborea*, Dej. Three specimens, found a short distance below the summit of Pike's peak, 14,000 feet above the sea. This species is also found on the summit of Mt. Washington, in New Hampshire.

684. *Amara impuncticollis*, Say. Five specimens.

— *Amara* sp. An undescribed species, not uncommon.

699. *Amara fallax*, Lec. Abundant under "chips" near Colorado Springs.

706. *Amara interstitialis*, Dej. Two specimens.

712. *Amara chalcona*, Dej. One specimen.

717. *Amara gibba*, Lec. Common under "chips."

815. *Nothopus zabroides*, Lec. Ten specimens.

818. *Cratacanthus dubius*, Beauv. Two specimens.

819. *Pliosoma setosum*, Lec. Taken at Alpine by Mr. Popenoe.

834. *Discoderus parallelus*, Hald. One specimen.

872. *Xestonotus lugubris*, Dej. Five specimens.

925. *Harpalus retractus*, Lec. Two specimens.

926. *Harpalus amputatus*, Say. One specimen.

936. *Harpalus spadiceus*, Dej. Three specimens.

939. *Harpalus pleuriticus*, Kirby. One specimen.

945. *Harpalus ellipsis*, Lec. One specimen.

956. *Harpalus oblitus*, Lec. Eight specimens.

961. *Harpalus basilaris*, Kirby. Eight specimens.

— *Harpalus* n. sp. One specimen.

1033. *Bembidium bifossulatum*, Lec. Abundant in moist places on the plains east of Colorado Springs.

1055. *Bembidium Nebraskaense*, Lec. One specimen.

1067. *Bembidium lucidum*, Lec. One specimen.

1080. *Bembidium cordatum*, Lec. Not common, in same localities with 1033.

— *Bembidium* sp. Two new species, each represented by a single specimen.

#### DYTISCIDÆ.

1255. *Hydroporus tristis*, Payk. Taken abundantly in the Ute Pass from the water below Bridal Veil Falls.

1317. *Rhantus binotatus*, Harr. One specimen.

1334. *Ilybius biguttatus*, Germ. Abundant below Bridal Veil Falls.

— *Gaurodytes* sp. An undetermined species, one specimen.

1381. *Anisomera cordata*, Lec. Seven specimens.

#### STAPHYLINIDÆ.

1656. *Atemeles cavus*, Lec. Taken at Pueblo by Mr. Popenoe.

1771. *Creophilus villosus*, Grav. Common.

— *Philonthus* sp. An undetermined species, one specimen.

1961. *Oxyporus* (near) *5-maculatus*, Lec. Two specimens.

— *Anthobium* sp. A single specimen, provisionally referred to this genus.

#### SILPHIDÆ.

2178a. *Neerophorus Hecate*, Bland. One specimen.

— *Neerophorus Hecate* var. Several specimens.

2185. *Neerophorus tomentosus*, Web. Several specimens.

2188. *Peltis lapponica*, Hb. Abundant everywhere.

2195. *Peltis ramosa*, Say. One specimen.

#### DERMESTIDÆ.

2392. *Dermestes marmoratus*, Say. Abundant.

2395. *Dermestes nubilus*, Say. Common.

2406. *Attagenus megatoma*, Fab. Taken at Pueblo by Mr. Popenoe.

2434a. *Orphilus subnitidus*, Lec. Common.

#### ENDOMYCHIDÆ.

2441. *Mycetina morosa*, Lec. A common intruder in our camp, attacking the hams.

#### EROTYLIDÆ.

2537. *Triplax thoracica*, Say. Common upon fungi.

2541. *Cypherotylus Boisduvali*, Chev. Common upon pine fungi, upon which both larva and imago feed.

#### TROGOSITIDÆ.

2682. *Trogosita virescens*, Fab. One specimen.

2688. *Tenebrioides corticalis*, Mels. Two specimens.

2699. *Ostoma ferruginea*, Linn. Four specimens, taken under pine bark in Englemann's Cañon.

2703. *Calitys scabra*, Thunb. One specimen on pine bark in Chiann Cañon.

#### NITIDULIDÆ.

2729. *Carpophilus pallipennis*, Say. Four specimens, Colorado Springs.

— *Epuræa* sp. An undetermined species.

#### COCCINELLIDÆ.

2827. *Hippodamia 5-signata*, Kirby. Two specimens.

— *Hippodamia 5-signata*, var. (fide Crotch.) One specimen.

2830. *Hippodamia glacialis*, Fab. One specimen.

2832. *Hippodamia convergens*, Guer. Common.

2835. *Hippodamia sinuata*, Muls. One specimen.

2837. *Hippodamia parenthesis*, Say. Abundant at Colorado Springs.

2847. *Coccinella 9-notata*, Hb. Not common.

2848. *Coccinella 5-notata*, Kirby. Common.

2858. *Harmonia picta*, Rand. "Not before found so far West" (Dr. LeConte); one specimen only.

2863. *Anatis Rathvoni*, Lec. var. Three specimens.

2872. *Exochomus marginipennis*, Lec. var. One specimen.

2872a. *Exochomus æthiops*, Bland. Three specimens.

— *Exochomus* sp. An undescribed species of this genus was taken by Mr. Popenoe at Pueblo.

2882. *Hyperaspis fimbriolata*, Mels. Taken at Pueblo by Mr. Popenoe.

#### PARNIDÆ.

2977. *Helichus striatus*, Lec. Abundant in the water below Bridal Veil Falls.

#### HISTERIDÆ.

3031. *Hister instratus*, Lec. One specimen.

3049. *Hister abbreviatus*, Fab. One specimen.

3131. *Saprinus lugens*, Er. Two specimens.

3133. *Saprinus Pennsylvanicus*, Payk. One specimen.

3134. *Saprinus Oregonensis*, Lec. Common.

#### LUCANIDÆ.

— *Platycerus* sp. "Probably a new species, very close to *P. depressus*, but the hind angles of prothorax are obtuse; the male is required before it can be fully investigated." (Dr. LeConte.)

#### SCARABÆIDÆ.

3219. *Canthon praticola*, Lec. One specimen.

3230. *Canthon hudsonias*, Forst. One specimen.

3254. *Aphodius* (near) *hamatus*, Say. One specimen.

3269. *Aphodius vittatus*, Say. Five specimens.

3295. *Aphodius Coloradensis*, Horn. One specimen.

— *Aphodius* n. sp. Five specimens; small, with pale elytra.

3381. *Trox Sonora*, Lec. Three specimens.

3427. *Dichelonycha sulcata*, Lec. Three specimens.

3429. *Serica vespertina*, Schon. One specimen.

3456. *Diploaxis brevicollis*, Lec. Fifteen specimens.

3474. *Diploaxis atratula*, Lec. Twenty specimens.

3564. *Tostegoptera lanceolata*, Say. Ten specimens.

3569. *Polyphylla decemlineata*, Say. One specimen, taken at Colorado Springs.

3597. *Cyclocephala immaculata*, Burm. Taken at Pueblo by Mr. Popenoe.

3609. *Ligyrrus gibbosus*, DeGeer. Taken at Pueblo by Mr. Popenoe.

3645. *Euryomia Kernii*, Hald. Several specimens.

3616. *Euryomia inda*, Linn. Common at Colorado Springs.

3659. *Cremastochilus Knochii*, Lec. Two specimens.

3672. *Trichius affinis*, Gory. Abundant in

the cañons, and on the mountains nearly to timber line.

#### BUPRESTIDÆ.

3689. *Dicerca prolongata*, Lec. One specimen.

3696. *Dicerca tenebrosa*, Kirby. Two specimens.

3707. *Pœcilonota cyanipes*, Say. One specimen.

3713. *Buprestis confluens*, Say. Taken at Pueblo by Mr. Popenoe.

3716. *Buprestis Nuttalli*, Kirby. Two specimens.

3718. *Buprestis maculiventris*, Say. Abundant; nearly all our specimens were taken from a single dead pine tree in Engelmann's cañon.

3719a. *Buprestis Langii*, Mann. One specimen, taken in Bear Creek cañon, on the trail to Pike's Peak.

3733. *Melanophila atropurpurea*, Say. Common upon pines.

3734. *Melanophila Drummondi*, Kirby. Four specimens.

— *Melanophila Drummondi*, var. Six specimens.

3738. *Anthaxia inornata*, Rand. One specimen.

3756. *Chrysobothris trinervia*, Kirby. Six specimens.

3790. *Acmæodera ornata*, Fab. A common species at the base of the mountains.

3791. *Acmæodera pulchella*, Hbst. Common upon flowers in the same localities with the preceding.

3791b. *Acmæodera mixta*, Lec. Taken at Pueblo by Mr. Popenoe.

3816. *Agrilus interruptus*, Lec. One specimen.

3841. *Brachys ærosa*, Mels. One specimen.

#### ELATERIDÆ.

3902. *Anelastes Druryi*, Kirby. One specimen.

3925. *Lacon rectangularis*, Say. Taken at Pueblo by Mr. Popenoe.

3935. *Alaus melanops*, Lec. One specimen was taken in Chiann cañon.

4017. *Elater phænicopterus*, Lec. One specimen.

4036. *Elater mixtus*, Hbst. One specimen.

— *Elater* sp. An undetermined species.

— *Athous simplex*, Lec., n. sp. (Wheeler's Report.) One specimen.

4333. *Asaphes coracinus*, Cand. Two specimens.

4337. *Asaphes memnonius*, Hbst. One specimen.

4340. *Asaphes decoloratus*, Say var. Two specimens.

#### LAMPYRIDÆ.

— *Dictyoptera rubripennis*, Lec. Six specimens, taken at Manitou.

— *Dictyoptera ruficollis*, Lec. One specimen.

4427. *Cænía sanguinipennis*, Say. A "long-lost species." Six specimens were taken at Manitou.

— *Cænía* —. "Probably a new species." (Lec.)

4439. *Eros modestus*, Say. Two specimens.

4453. *Photinus nigricans*, Say. Three specimens.

#### TELEPHORIDÆ.

4481. *Chauliognathus basalis*, Lec. Exceedingly abundant.

— *Podabrus lateralis*, Lec. ms. A new species, first taken by Lieut. Wheeler's expedition. Five specimens were taken by our party.

4542. *Telephorus fidelis*, Lec. One specimen.

## MALACHIDÆ.

4582. *Collops bipunctatus*, Say. Common at Colorado Springs.

— *Collops hirtellus*, Lec. First taken by Lieut. Wheeler's expedition. We took one specimen only.

— *Pristoscelis*, n. sp. Two specimens.  
4683. *Listrus senilis*, Lec. Several specimens.

## CLERIDÆ.

4716. *Clerus ornatus*, Say. Common upon flowers, especially upon geranium.

4736. *Thanasimus nigriventris*, Lec. One specimen.

4738. *Thanasimus mœstus*, Klug. Three specimens.

4753. *Hydnocera subænea*, Lec. One specimen.

4756. *Hydnocera pubescens*, Lec. One specimen.

4791. *Corynetes violaceus*, Linn. One specimen.

## CERAMBYCIDÆ.

4907. *Ergates spiculatus*, Lec. Three specimens, taken in Engelmann's cañon.

4918. *Prionus Californicus*, Motsch. Ten specimens, Engelmann's cañon.

4923. *Homæsthesis emarginatus*, Say. Eight specimens, taken on the plains east of Colorado Springs.

4928. *Asemum atrum*, Esch. var. With brown elytra; a single specimen.

4930. *Nothorina aspera*, Lec. One specimen.

4931. *Criocephalus productus*, Lec. Six specimens, South Park.

4933. *Criocephalus asperatus*, Lec. Seven specimens, South Park.

4939. *Tetropium cinnamopterum*, Kirby. Two specimens.

4948. *Phymatodes variabilis*, Fab. One specimen.

4958. *Phymatodes dimidiatus*, Kirby. Two specimens.

5068. *Tragidion coquus*, Linn. One specimen, Engelmann's cañon.

5068a. *Tragidion fulvipenne*, Say. Three specimens, same locality.

5077. *Batyle ignicollis*, Say. Four specimens.

5081. *Batyle Pearsalli*, Bland. Common upon *Solidago* in Engelmann's cañon, Ute Pass, and other localities.

— *Xylotrechus*, n. sp. Fifteen specimens, taken from pines in Engelmann's cañon.

5134. *Neoclytus leucozonus*, Lap. One specimen.

5180. *Pachyta liturata*, Kirby. Ten specimens upon pines in Engelmann's cañon.

5195. *Acmaeops tumida*, Lec. Three specimens.

5198. *Acmaeops longicornis*, Kirby. Two specimens.

5198a. *Acmaeops longicornis*, Kirby var. Two specimens.

5205. *Acmaeops strigilata*, Fab. Common on flowers, especially in cañons on eastern border of South Park.

5223. *Typocerus brunnicornis*, Lec. One specimen, South Park.

5224. *Typocerus sinuatus*, Newm. One specimen.

5229. *Leptura propinqua*, Bland. Common upon thistles in Bear Creek cañon, along the trail of Pike's Peak.

5249. *Leptura subargentata*, Kirby. Common in cañons along east border of South Park.

5250. *Leptura similis*, Kirby. Common in same localities with the preceding.

5257. *Leptura instabilis*, Hald. var. A black variety, one specimen.

5257a. *Leptura convexa*, Lec. Five specimens, at an altitude of 10,000 ft., upon *Astragalus flexuosus*.

5264. *Leptura nigrella*, Say. One specimen.

— *Leptura nigrella*, var. A variety with testaceous elytra; one specimen, chopped from a pine log in a cañon on east border of South Park.

5266b. *Leptura cribripennis*, Lec. Eight specimens, taken under pine bark on eastern border of South Park, and in Engelmann's cañon.

5272. *Leptura sanguinea*, Lec. Rather common in cañons along east border of South Park.

5276. *Leptura chrysocoma*, Kirby. Common in Chiann cañon and Engelmann's cañon.

5299. *Leptura aspera*, Lec. Two specimens.

5306. *Monilema annulatum*, Say. A dozen specimens, chiefly upon *Opuntia*, at Colorado Springs.

5323. *Monohammus scutellatus*, Say. Taken abundantly upon pines in Engelmann's cañon; also in South Park.

5377. *Acanthocinus obliquus*, Lec. Four specimens, Englemann's cañon.

5378. *Acanthocinus spectabilis*, Lec. One specimen, Ute Pass—a rare species.

5381. *Dectes spinosus*, Say. Four specimens, Engelmann's cañon.

5387. *Pogonocherus simplex*, Lec. One specimen.

5388. *Pogonocherus mixtus*, Hald. Four specimens.

5424. *Mecas inornata*, Say. One specimen.

5425. *Mecas pergrata*, Say. One specimen.

5452. *Tetraopes annulatus*, Lec. Four specimens.

## SPERMOPHAGIDÆ.

5472. *Bruchus discoideus*, Say. One specimen. "In seeds of *Ipomœa leptophylla*." (Dr. LeConte.)

— *Bruchus* sp. An undetermined species.

5506. *Bruchus seminulum*, Horn. One specimen.

## CHRYSEMELIDÆ.

5535. *Orsodachna Childreni*, Kirby. Common upon Pike's Peak.

— *Orsodachna Childreni* var. A black variety.

— *Zeugophora* n. sp. Common upon *Populus tremuloides* along the Ute Pass road, near "Castellar's."

5564. *Saxinis saucia*, Lec. Two specimens. "Not before found so far east." (Dr. LeConte.)

5574. *Coscinoptera vittigera*, Lec. Rather common in South Park, near Girten's Sulphur Springs.

5609. *Cryptocephalus notatus*, Fab. One specimen.

5642. *Pachybrachys atomarius*, Mels. Three specimens.

5661. *Pachybrachys litigiosus*, Suffr. One specimen.

5664. *Pachybrachys hepaticus*, Mels. One specimen.

— *Pachybrachys* sp. An undetermined species.

5665. *Adoxus vitis*, Linn. Three specimens, taken above timber line on Pike's Peak.

5672. *Heteraspis marcassita*, Germ. One specimen.

5688. *Chysochus auratus*, Fab. Rather common at Colorado Springs.

5719. *Colaspis tristis*, Oliv. var. (fide Crotch). Two specimens.

5729. *Chrysomela exclamationis*, Fab.

Common at Colorado Springs upon *Helianthus lenticularis*.

5730. *Chrysomela conjuncta*, Rog. var. *pallida*. One specimen at Colorado Springs.

5750. *Chrysomela* (near) *auripennis*, Say. One specimen; elytra more finely punctured than in the typical form.

5751. *Chrysomela inornata*, Rog. One specimen.

— *Chrysomela n. sp.* One specimen.

5754. *Gastrophysa dissimilis*, Say. Two specimens.

5791. *Luperus cyaneus*, Lec. Several specimens.

— *Luperus sp.* An undetermined species.

5800. *Diabrotica tricolorata*, Say. One specimen at Colorado Springs. Taken also at Pueblo by Mr. Popenoe.

5811. *Diabrotica atripennis*, Say. Two specimens.

5831. *Monoxia debilis*, Lec. One specimen.

5834a. *Trirhabda Canadensis*, Kirby. One specimen.

5835a. *Trirhabda luteocincta*, Lec. Two specimens. "Not before found so far east." (Dr. LeConte.)

— *Graptodera sp.* Resembles *foliacea*, but the antennæ are yellow instead of dark.

— *Graptodera sp.* An undetermined species.

5886. *Graptodera foliacea*, Lec. Taken at Pueblo by Mr. Popenoe.

5913. *Dibolia ærea*, Mels. One specimen.

5942. *Chaetocnema denticula*, Ill. Common at Colorado Springs.

5969. *Microrhopala cyanea*, Say. Taken at Pueblo by Mr. Popenoe.

#### TENEBRIONIDÆ.

5993. *Edrotes rotundus*, Say. Thirty specimens were taken at Colorado Springs, all of them under "chips," upon an area not more than five rods square.

6002. *Trimyctis pruinosus*, Lec. Taken at Pueblo by Mr. Popenoe.

6029. *Emmenastus acutus*, Horn. Abundant under "chips," in South Park.

6068. *Asida opaca*, Say. One specimen only was taken at Colorado Springs. Abundant in the upper Arkansas valley, west of South Park.

6070. *Asida polita*, Say. Common at Colorado Springs under "chips."

6071. *Asida sordida*, Lec. One specimen at Colorado Springs.

6094. *Asida convexiticollis*, Lec. Rare near Colorado Springs.

6097. *Asida elata*, Lec. One specimen.

6098. *Ologlyptus anastomosis*, Say. Taken at Pueblo by Mr. Popenoe.

6105. *Eusattus reticulatus*, Say. Taken at Pueblo by Mr. Popenoe.

6109. *Eusattus difficilis*, Lec. One specimen.

6109a. *Eusattus convexus*, Lec. Three specimens, at Colorado Springs.

6126. *Coniontis obesa*, Lec. Several specimens.

6131. *Eleodes tricolorata*, Say. Common at Colorado Springs under "chips."

6132. *Eleodes carbonaria*, Say. Taken by Mr. Popenoe in Pleasant Valley, Arkansas river.

6133. *Eleodes obsoleta*, Say. Exceedingly abundant at Colorado Springs.

6137. *Eleodes extricata*, Say. Common at Colorado Springs.

6149. *Eleodes nigrina*, Lec. Common in South Park.

6150. *Eleodes hispilabris*, Say. Eight specimens, at Colorado Springs.

6165. *Eleodes cordata*, Esch. One specimen.

6167. *Eleodes opaca*, Say. Twenty specimens, found under old bones near Colorado Springs.

6202. *Ipthimus serratus*, Mannh. var. Common under pine bark in Engelmann's cañon.

6208. *Upis ceramoides*, Linn. One specimen.

6244. *Blapstinus pratensis*, Lec. Abundant in South Park.

6266. *Tribolium madens*, Charp. One specimen.

6320. *Platyedema Oregonense*, Lec. One specimen.

#### ALLECULIDÆ.

6375. *Hymenorus obscurus*, Say. Three specimens.

#### ANTHICIDÆ.

6432. *Stereopalpus guttatus*, Lec. Three specimens.

6442. *Corphyra Lewisii*, Horn. Five specimens.

— *Notoxus sp.* An undetermined species.

6511. *Anthicus granularis*, Lec. One specimen.

— *Anthicus sp.* An undetermined species, probably new, two specimens.

#### MELANDRYIDÆ.

6578. *Anaspis nigra*, Hald. Abundant everywhere below timber line, upon Soudado.

6583. *Anaspis rufa*, Say. Common in cañons along eastern border of South Park.

6593. *Mordella melæna*, Germ. Common.

6594. *Mordella scutellaris*, Fabr. Common.

— *Mordella sp.* Probably a new species. Common.

#### MELOIDÆ.

6701. *Meloe sublævis*, Lec. Common at Colorado Springs.

— *Meloe sp.* An undetermined species, one specimen.

6702. *Nomaspis parvula*, Hald. One specimen.

6731. *Epicauta ferruginea*, Say. Common in Engelmann's cañon, Manitou, Ute Pass, etc.

6732. *Epicauta sericans*, Lec. Common.

6733. *Epicauta pruinosus*, Lec. This and the preceding species were found upon potatoes wherever cultivated, and upon *Astragalus flexuosus* in the mountains.

6738. *Epicauta maculata*, Say. Common.

— *Epicauta maculata* var. A variety with large spots, much more common than the typical form of the species.

6750. *Pyrota mylabrina*, Chev. Abundant in vicinity of Denver.

6772. *Cantharis viridana*, Lec. Exceedingly restricted in its distribution, but found in abundance in two or three half-acre spots at an altitude of about 10,000 feet, upon *Astragalus flexuosus*, which seems to be the natural food-plant of several species of Meloidæ.

6791. *Cantharis sphaericollis*, Say. Two specimens.

6808. *Nemognatha bicolor*, Lec. Four specimens were taken on thistles at Colorado Springs.

6809. *Nemognatha lurida*, Lec. Common on thistles (*Cirsium undulatum*) at Colorado Springs and along the Ute Pass.

6821. *Nemognatha nigripennis*, Lec. One specimen.

6825. *Nemognatha immaculata*, Say. Twelve specimens were taken at Colorado Springs.

6830. *Gnathium minimum*, Say. Taken by Mr. Popenoe at Pueblo.

#### OEDEMERIDÆ.

6841. *Ditylus obscurus*, Lec. One specimen.

#### CURCULIONIDÆ.

6953. *Ophryastes vittatus*, Say. Four specimens, at Colorado Springs.

6954. *Thecestermus affinis*, Lec. One specimen.

— *Cleonus 4-lineatus*, Chevr. One specimen.  
7106. *Balaninus nasicus*, Say. One specimen.

— *Balaninus quercus*, Horn. One specimen.

— *Acalles basalis*, Lec. One specimen.

— *Tricalaphus planirostris*, Lec. n. sp. One specimen, described in Dr. LeConte's monograph on the "Rhynchophora of N. America," p. 413.

— *Baris* sp. An undetermined species.  
— *Aulobaris ibis*, Lec. Three specimens, South Park.

7281a. *Sphenophorus vomerinus*, Lec., var. *baridioides*.

#### SCOLYTIDÆ.

7400. *Dendroctonus terebrans*, Lec. Eight specimens, at Colorado Springs.

7410. *Hylastes macer*, Lec. One specimen.

— *Hylastes longus*, Lec., n. sp. Described in Dr. LeConte's "Rhynchophora," p. 389. One specimen.

#### ANTHRIBIDÆ.

— *Brachytarsus griseus*, Lec., n. sp. Described on p. 405 of LeConte's "Rhynchophora." Taken in abundance at Girten's

Sulphur Springs, in South Park, upon *Actinella Richardsonii*.

#### SUMMARY OF SPECIES

(not including varieties.)

|                              |     |
|------------------------------|-----|
| Cicindelidæ                  | 10  |
| Carabidæ                     | 42  |
| Dytiscidæ                    | 5   |
| Staphylinidæ                 | 5   |
| Silphidæ                     | 4   |
| Dermestidæ                   | 4   |
| Endomychidæ                  | 1   |
| Erotylidæ                    | 2   |
| Parnidæ                      | 1   |
| Histeridæ                    | 5   |
| Trogositidæ                  | 4   |
| Nitidulidæ                   | 2   |
| Coccinellidæ                 | 12  |
| Lucanidæ                     | 1   |
| Scarabæidæ                   | 19  |
| Buprestidæ                   | 15  |
| Elateridæ                    | 10  |
| Lampyridæ                    | 6   |
| Telephoridæ                  | 3   |
| Malachidæ                    | 4   |
| Cleridæ                      | 6   |
| Cerambycidæ                  | 40  |
| Spermophagidæ                | 3   |
| Chrysomelidæ                 | 32  |
| Tenebrionidæ                 | 25  |
| Alleculidæ                   | 1   |
| Anthicidæ                    | 5   |
| Melandryidæ                  | 2   |
| Mordellidæ                   | 5   |
| Meloidæ                      | 15  |
| Oedemeridæ                   | 1   |
| Curculionidæ                 | 11  |
| Scolytidæ                    | 2   |
| Anthribidæ                   | 1   |
| Total: families, 34; species | 304 |

In order to furnish the means of estimating the success of our expedition in collecting insects, it may be stated that the number of species of Coleoptera collected in Colorado in 1873 by the Government expedition under Lieut. Carpenter, was 165. In the summer of 1872 Mr. J. D. Putnam, of Davenport, Iowa, collected 250 species in the same region.

### A LIST OF KANSAS COLEOPTERA.

By Edwin A. Popenoe.

The following list of Kansas coleoptera is merely preliminary, and is given as a basis for a more complete collection and more thorough study of our coleopterous fauna, which it is hoped will be made in the course of a few years. It is based upon the species in my own collection, but the list is largely increased by contributions from Prof. F. H. Snow, of the State University at Lawrence, to whom the credit belongs where Lawrence is given as a locality. Additional species were collected by Mr. George P. Cooper, at Topeka and in western Kansas, and by Mr. T. B. Ashton, at Tonganoxie.

Acknowledgments are due to Drs. LeConte and Horn, of Philadelphia, for the determination of many species, and to Mr. Henry Ulke, of Washington City, for similar favors. I also owe thanks to Mr. A. S. Johnson, of the A. T. & F. R. R., for opportunities to make collecting trips to the western part of the State, which I have several times enjoyed.

The number of species included at present is about 1,200, and double the number may be reasonably expected after a few years longer work.